

PATENT COOPERATION TREATY

PCT

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference GA 267 PCT	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/210) as well as, where applicable, item 5 below.
International application No. PCT/SE 99/01915	International filing date (day/month/year) 22 October 1999	(Earliest) Priority Date (day/month/year) 23 October 1998
Applicant GAMBRO AB et al		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Certain claims were found unsearchable (See Box I).

2. Unity of invention is lacking (See Box II).

3. The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international search was carried out on the basis of the sequence listing

- filed with the international application.
- furnished by the applicant separately from the international application,
 - but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.
- transcribed by this Authority.

4. With regard to the title, the text is approved as submitted by the applicant.
 the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is:
 Figure No. 4

- as suggested by the applicant.
- because the applicant failed to suggest a figure.
- because this figure better characterizes the invention.
- None of the figures.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 99/01915

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A61M 1/36, A61B 5/026, G01F 9/00
 According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A61M, G01F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	Advances in renal replacement therapy, Volume 6, No 3, 1999, Sternby J, "Urea sensors - A world of possibilities", page 265 - page 272, see page 271 --	1-28
P,A	Advances in Renal Replacement Therapy, Volume 6, No 3, 1999, Lindsay RM et al, "Monitoring vascular access flow" page 273 - page 277 --	1
P,A	Kidney International, Volume 56, No 3, 1999, Yarar D et al, "Ultrafiltration method for measuring vascular access flow rates during hemodialysis" page 1129 - page 1135 --	1

 Further documents are listed in the continuation of Box C. See patent family annex.

- Special categories of cited documents
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "a" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
17 February 2000	22-02-2000
Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Facsimile No. + 46 8 666 02 86	Authorized officer Monika Bohlin/EÖ Telephone No. + 46 8 782 25 00

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 99/01915

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	J Am Soc Nephrol, Volume 6, 1995, Depner TA et al, "Access flow measured from recirculation of urea during hemodialysis with reversed blood lines" page 486 --	1
A	ASAIO J, Volume 44, 1998, Lindsay RM et al, "The estimation of hemodialysis access blood flow rates by a urea method is a poor predictor of access outcome" page 818 - page 822 --	1
P,A	EP 0943369 A1 (FRESENIUS MEDICAL DEUTSCHLAND GMBH), 22 Sept 1999 (22.09.99), page 3, line 15 - line 25, abstract --	1-28
A	EP 0773035 A2 (FRESENIUS AG), 14 May 1997 (14.05.97), page 2, line 43 - page 3, line 47; page 5, line 15 - page 6, line 21, abstract --	1-28
A	US 4995268 A (STEPHEN R. ASH ET AL). 26 February 1991 (26.02.91), abstract --	1-28
A	US 4923598 A (WILFRIED SCHÄL), 8 May 1990 (08.05.90), abstract --	1-28
A	US 5830365 A (DANIEL SCHNEDITZ), 3 November 1998 (03.11.98), abstract -----	1-28

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INTERNATIONAL SEARCH REPORT
Information on patent family members

02/12/99

 International application No.
PCT/SE 99/01915

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0943369 A1	22/09/99	DE 19809945 A	09/09/99
EP 0773035 A2 ✓	14/05/97	DE 19541783 C JP 9173444 A US 5866015 A	27/03/97 08/07/97 02/02/99
US 4995268 A ✓	26/02/91	CA 2022961 A EP 0416808 A JP 3096816 A	02/03/91 13/03/91 22/04/91
US 4923598 A	08/05/90	DE 3720665 A EP 0300201 A,B SE 0300201 T3 JP 1097471 A	05/01/89 25/01/89 14/04/89
US 5830365 A ✓	03/11/98	DE 19528907 C	07/11/96

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